

CLAIMS

1. A reciprocating motor comprising:

an outer stator having a cylindrical shape by radially stacking a plurality of lamination sheets at the outside of a bobbin in which a winding coil is wound;

5 an inner stator disposed in the outer stator at a certain air gap from an inner circumference of the outer stator, and having a cylindrical shape by radially stacking a plurality of lamination sheets;

a magnet paddle disposed between the outer stator and the inner stator, and having a plurality of magnets installed at a circumference thereof;

10 a terminal part provided at one side of the outer stator for connecting an external power to the winding coil of the outer stator; and

a magnetic force balancing part at which lamination sheets are not stacked, provided at the outer stator at the same interval on the basis of the terminal part in a circumferential direction of the outer stator.

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2. The motor of claim 1, wherein the magnetic force balancing part has the same shape as the terminal part.

3. The motor of claim 1, wherein the magnetic force balancing part
20 has the same sectional area as the terminal part.

4. The motor of claim 1, wherein the magnetic force balancing part is integrally formed with the bobbin.

25 5. The motor of claim 1, wherein the magnetic force balancing part

is disposed at an interval of 180 degrees on the basis of the terminal part in a circumferential direction of the outer stator.

6. The motor of claim 1, wherein the plurality of the magnetic force
5 balancing parts are disposed at the same intervals on the basis of the terminal part in a circumferential direction of the outer stator.

7. The motor of claim 6, wherein the magnetic force balancing parts
are disposed at an interval of 120 degrees therebetween on the basis of the
10 terminal part in a circumferential direction of the outer stator.

8. The motor of claim 6, wherein the magnetic force balancing parts
are disposed at an interval of 90 degrees therebetween on the basis of the
terminal part in a circumferential direction of the outer stator.